

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION II

DATE: NOV 03 1993

SUBJECT: Transmittal of RCRA Enforcement Sampling Inspection of Central Steel Drum (CSD), Newark, New Jersey

FROM: Richard Spear, Chief
Surveillance and Monitoring Branch

TO: George Meyer, Chief
Hazardous Waste Compliance Branch

Attached is a copy of the inspection report for the RCRA enforcement sampling inspection which was conducted at Central Steel Drum (CSD) on July 9, 1993.

If you should have any questions pertaining to this report, contact me or David Dugan of my staff at FTS 340-6995.

Attachments

U.S. E.P.A.
NOV -5 AM 11:55
HAZ. WASTE COMPL. BR.



RCRA SAMPLING INSPECTION REPORT

Central Steel Drum (CSD)
Newark, New Jersey

July 9, 1993

Participating Personnel:

U.S. Environmental Protection Agency
David Dugan, Environmental Scientist
Robert Morrell, Geologist

Jim Sullivan, Inspector w/ EPA/AWMD/HWCB
Neil Fischer, Co-owner of CSD

Report Prepared By:

David J. Dugan 10/29/93
David Dugan, Environmental Scientist
Source Monitoring Section

Approved for the Director By:

Richard D. Spear 11/3/93
Richard D. Spear, Ph.D., Chief,
Surveillance and Monitoring Branch

Central Steel Drum (CSD)
704 Doremus Avenue
Newark, New Jersey 07105

July 9, 1993

REPORT

Objective:

The objective of this sampling inspection was to determine whether one of the company's major waste streams, specifically blaster dust, is a hazardous waste.

Participants:

Neil Fischer, Co-owner of Central Steel Drum

Jim Sullivan, Inspector with EPA/AWMD/HWCB

David Dugan - EPA/ESD/SMB Sampling Team (Project Leader)

Robert Morrell - EPA/ESD/SMB Sampling Team

Facility Operations:

The facility reconditions and paint drums. The facility also incinerates the contents of drums that are brought into the facility. One of the major waste streams generated by CSD is the blaster dust. Blaster dust is generated when the original coat of paint on the drum is blasted off using steel shot. The residue is then transported out of the CSD facility's interior via a screw conveyor to a mobile roll-off. This dust was removed as a Michigan-specific non-hazardous waste in 1991. Since then, there has been no shipments, due to the re-use of steel shot and several large roll-offs located on-site containing some of this material.

Sampling Activities:

Four sampling locations were chosen by Jim Sullivan and the ESD sampling team. The samples were taken from the following areas:

- 1) the roll-off under the conveyor belt
- 2) blaster dust on drums next to the roll-off
- 3) blaster dust on the ground adjacent to the roll-off
- 4) material taken from one of the surplus roll-offs

The samples were collected on July 9, 1993, using a disposable scoop and placed in a 1 - 8 oz. glass jar. The samples were analyzed by the ESD lab for TCLP metals. The analytical results can be found under Findings.

Sampling commenced @ 0920 hours and ended at approximately 0930 hours.

Findings:

Roll-off under conveyor belt

Silver.....undetected
Arsenic.....undetected
Barium.....2.9 mg/l (ppm)
Cadmium.....0.68 mg/l (ppm)
Chromium.....5.18 mg/l (ppm)
Mercury.....0.0043 mg/l (ppm)
Lead.....70.0 mg/l (ppm)
Selenium.....undetected

Dust on drum

Silver.....undetected
Arsenic.....undetected
Barium.....4.1 mg/l (ppm)
Cadmium.....1.10 mg/l (ppm)
Chromium.....2.06 mg/l (ppm)
Mercury.....0.070 mg/l (ppm)
Lead.....50.0 mg/l (ppm)
Selenium.....undetected

Blaster dust on ground

Silver.....undetected
Arsenic.....undetected
Barium.....undetected
Cadmium.....0.33 mg/l (ppm)
Chromium.....1.76 mg/l (ppm)
Mercury.....0.035 mg/l (ppm)
Lead.....30.0 mg/l (ppm)
Selenium.....undetected

Material in surplus roll-off

Silver.....undetected
Arsenic.....undetected
Barium.....3.5 mg/l (ppm)
Cadmium.....0.05 mg/l (ppm)
Chromium.....0.23 mg/l (ppm)
Mercury.....0.008 mg/l (ppm)
Lead.....1.86 mg/l (ppm)
Selenium.....undetected

Conclusions:

Every sample, except the one collected in the surplus roll-off, exhibited the characteristic of toxicity, and is therefore, a

hazardous waste. The sample collected from the roll-off under the conveyor belt had 14 times the maximum concentration for TC of Lead (5.0 ppm), and Chromium was slightly higher (5.18 ppm) than the 5.0 ppm maximum concentration for TC.

The sample of the dust collected from the top of a drum was 10 times the maximum concentration for TC of Lead (5.0 ppm), and Cadmium was slightly higher (1.10 ppm) than the 1.0 ppm maximum concentration for TC.

The sample of the blaster dust taken from the ground was 6 times the maximum concentration for TC of Lead (5.0 ppm).

Attachments:

- * Photographs
- * Lab data results
- * Sampling QA Project Plan
- * Analysis request form, chain-of-custody, and field data sheets



1. Photo of the roll-off under the conveyor belt.



2. Photo of the blaster dust on drums next to the roll-off.



3. Blaster dust on the ground adjacent to the roll-off.



4. Material sampled from under the tarp from one of the surplus roll-offs.

COMPLETED ANALYSIS REPORT

REPORT DATE: 93/09/29

PROJECT NO: 628

PROJECT NAME: CENTRAL STEEL DRUM

EXPLANATIONS OF REMARK CODES

REMARK CODE	EXPLANATION
B	RESULTS BASED UPON COLONY COUNTS OUTSIDE ACCEPTABLE RANGE
J	ESTIMATED VALUE
K	ACTUAL VALUE KNOWN TO BE LESS THAN VALUE GIVEN
L	ACTUAL VALUE KNOWN TO BE GREATER THAN VALUE GIVEN
N	NO OBSERVABLE EFFECT CONCENTRATION < 0.3%
O	SAMPLED BUT NOT ANALYZED DUE TO LAB ACCIDENT
T	REPORTED VALUE LESS THAN CRITERIA OF DETECTION
U	REPORTING LIMIT

QA/QC REMARK CODES

CODE	EXPLANATION
QD	ACCURACY CHECK SAMPLE ABOVE UPPER ACCEPTANCE LIMIT
QE	ACCURACY CHECK SAMPLE BELOW LOWER ACCEPTANCE LIMIT
QF	PRECISION OF CALIBRATION CURVE LESS THAN ACCEPTANCE CRITERIA
QJ	ESTIMATED DETECTION LIMIT DUE TO INTERFERENCE
QG	CONTINUING CALIBRATION CHECK DOES NOT MEET ACCEPTANCE CRITERIA
QS	SPIKE RECOVERIES ABOVE UPPER ACCEPTANCE LIMIT
QR	SPIKE RECOVERIES BELOW LOWER ACCEPTANCE LIMIT
QP	SAMPLE REPLICATE PRECISION DOES NOT MEET ACCEPTANCE CRITERIA
QH	RECOMMENDED HOLDING TIMES EXCEEDED
QT	TENTATIVELY IDENTIFIED COMPOUND
QM	PRESENCE OF MATERIAL VERIFIED BUT NOT QUANTIFIED
QB	BLANK CONTAMINATED BY ANALYTE IN EXCESS OF ACCEPTANCE CRITERIA
QQ	SAMPLE IMPROPERLY PRESERVED

LOCATION CODES FOR IDENTIFICATION OF SAMPLING POINTS AT INDUSTRIAL /
SANITARY FACILITIES, LANDFILLS, HAZARDOUS WASTE SITES.

CODE NUMBERS	SAMPLING POINTS
1001 - 1050	EFFLUENT PIPE NUMBER 001 TO 050
1051 - 1099	OTHER EFFLUENTS SUCH AS COOLING TOWER DISCHARGE, DISCHARGE FROM HOLDING PONDS, ETC...
1100 - 1249	IN PLANT SAMPLES
1435 - 1454	SEPARATE INFLUENT POINTS/WATER SOURCES
15XX	INFLUENT ASSOCIATED WITH EFFLUENT 10XX
2000	BLANK FOR VOLATILE ORGANICS
3000 - 3099	GROUND WATER FROM WELL 01 TO 99
3100 - 3199	SEDIMENT SAMPLE (WATER BOTTOM)
3200 - 3299	SOIL SAMPLE
3300 - 3399	STREAM WATER SAMPLE
3400 - 3499	LAGOON SAMPLE
3500 - 3599	STORAGE TANK SAMPLE
3600 - 3699	LEACHATE SAMPLE
3700 - 3799	OTHER TYPE SAMPLE

COMPLETED ANALYSIS REPORT

REPORT DATE: 93/09/29

PROJECT NO: 628

PROJECT NAME: CENTRAL STEEL DRUM

STATION NO	DATE FROM TO	TIME OF DAY
------------	--------------------	-------------------

NONE 93/07/09 0920
 DEPTH: 0000 SUBSTRATE: BLASTRDUST
 DESCRIPTION: ROLL-OFF UNDER BELT

LABNO	PARNO	PARAMETER NAME
-------	-------	----------------

UNITS	CHEMISTRY	VALUE & REMARK	QA/QC REMARK
-------	-----------	-------------------	-----------------

098472	99999	SILVER	MG/L	TCLP	0.10 U	
	99999	ARSENIC	MG/L	TCLP	0.20 U	
	99999	BARIUM	MG/L	TCLP	2.9	
	99999	CADMIUM	MG/L	TCLP	0.68	
	99999	CHROMIUM	MG/L	TCLP	5.18	
	99999	MERCURY	MG/L	TCLP	0.0043	
	99999	LEAD	MG/L	TCLP	70.0	
	99999	SELENIUM	MG/L	TCLP	0.20 U	

NONE 93/07/09 0924
 DEPTH: 0000 SUBSTRATE: BLASTRDUST
 DESCRIPTION: DUST ON DRUM

098473	99999	SILVER	MG/L	TCLP	0.10 U	
	99999	ARSENIC	MG/L	TCLP	0.20 U	
	99999	BARIUM	MG/L	TCLP	4.1	
	99999	CADMIUM	MG/L	TCLP	1.10	
	99999	CHROMIUM	MG/L	TCLP	2.06	
	99999	MERCURY	MG/L	TCLP	0.070	
	99999	LEAD	MG/L	TCLP	50.0	
	99999	SELENIUM	MG/L	TCLP	0.20 U	

NONE 93/07/09 0929
 DEPTH: 0000 SUBSTRATE: BLASTRDUST
 DESCRIPTION: BLASTER DUST ON GROUND

098474	99999	SILVER	MG/L	TCLP	0.10 U	
	99999	ARSENIC	MG/L	TCLP	0.20 U	
	99999	BARIUM	MG/L	TCLP	2.0 U	
	99999	CADMIUM	MG/L	TCLP	0.33	
	99999	CHROMIUM	MG/L	TCLP	1.76	
	99999	MERCURY	MG/L	TCLP	0.035	
	99999	LEAD	MG/L	TCLP	30.0	
	99999	SELENIUM	MG/L	TCLP	0.20 U	

NONE 93/07/09 0927
 DEPTH: 0000 SUBSTRATE: BLASTRDUST
 DESCRIPTION: ROLL-OFF/SURPLUS

098475	99999	SILVER	MG/L	TCLP	0.10 U	
	99999	ARSENIC	MG/L	TCLP	0.20 U	

COMPLETED ANALYSIS REPORT

REPORT DATE: 93/09/29

PROJECT NO: 628

PROJECT NAME: CENTRAL STEEL DRUM

STATION NO	DATE FROM TO	TIME OF DAY
------------	--------------------	-------------------

LABNO	PARNO	PARAMETER NAME
-------	-------	----------------

UNITS	CHEMISTRY	VALUE & REMARK	QA/QC REMARK
-------	-----------	-------------------	-----------------

098475	99999	BARIUM	MG/L	TCLP	3.5	
	99999	CADMIUM	MG/L	TCLP	0.05	
	99999	CHROMIUM	MG/L	TCLP	0.23	
	99999	MERCURY	MG/L	TCLP	0.008	
	99999	LEAD	MG/L	TCLP	1.86	
	99999	SELENIUM	MG/L	TCLP	0.20 U	

***** END OF PROJECT *****

CENTRAL STEEL DRUM
RCRA Enforcement Sampling QA Project Plan

Responsible Agency: U.S. Environmental Protection Agency
Surveillance and Monitoring Branch

Requesting Agency: U.S. Environmental Protection Agency
Hazardous Waste Compliance Branch

Project Officer: David J. Dugan 7/6/93
David Dugan, Environmental Scientist
Source Monitoring Section

Quality Assurance Officer: Leon Lazarus
Leon Lazarus, Environmental Scientist
Monitoring Management Branch

Laboratory Coordinator: John Birri 7/7/93
John Birri, Chief
Inorganic Chemistry Section
Technical Support Branch

1. Project Name: Central Steel Drum - RCRA Enforcement Sampling Inspection
2. Project Requested By: George Meyer, Chief
Hazardous Waste Compliance Branch
3. Date of Request: June 4, 1993
4. Date of Project Initiation: July 6, 1993
5. Project Officer: David Dugan, Environmental Scientist
Source Monitoring Section
6. Quality Assurance Officer: Leon Lazarus, Environmental
Scientist, Monitoring Management
Branch
7. Project Description:

- a. Background of the Facility: Central Steel Drum, located in Newark, New Jersey, receives used steel drums and reconditions them. The facility produces waste streams, one of them being blaster dust.

Blaster dust is generated while the steel shot is blasting off the original coat of paint on the drums. This residue is taken out of the CSD process building's interior via a screw conveyor to a mobile roll-off. This dust was removed as a Michigan-specific non-hazardous waste in 1991. There has been no shipments of this material after 1991, due to CSD's reuse of steel shot. The facility is storing a large quantity of used steel shot on-site.

- b. Objective and Scope of Work: The primary objective of this RCRA enforcement sampling inspection is to collect samples of the blaster dust, particularly the material coming off the screw conveyor to the roll-off.

This wastestream is handled in a haphazard fashion, and it lies on the surface of the ground near the collection point. Samples will be taken of the material that lies on the ground as well.

A total of four samples will be taken of the blaster dust and analyzed for TCLP metals. The samples will be collected in a 1 - 8 oz. glass jar with a Teflon lid using a disposable, polypropylene scoop.

8. Schedule of Tasks and Products:

Project Assigned:	July, 1993
Development of Site Safety Plan:	July, 1993
Development of Work Plan:	July, 1993

Site Safety Plan Submitted for Approval:	July, 1993
Work Plan Submitted for Approval:	July, 1993
Equipment Preparation:	July, 1993
Field Work:	July, 1993

9. **Project Organization and Responsibility:**

The following is a list of key project personnel and their corresponding responsibilities for samples analyzed at the EPA Edison Laboratory:

David Dugan.....	Sampling Operations
John Ciancia.....	Sampling QC
John Birri.....	Laboratory Analyses + QC
Leon Lazarus.....	Systems Auditing
David Dugan.....	Overall Project Coordinator

10. **Data Quality Requirements:** The data must, at a minimum, conform to the QA/QC Implementation Plan dated February 17, 1987 as prepared by the Technical Support Branch for samples analyzed by the EPA Edison Laboratory.

Sample Representativeness: Sample containers, sampling equipment, sample collection techniques, and chain of custody procedures will conform with standard EPA, Region II protocol.

All sample container glassware are precleaned, Eagle-Picher containers with Teflon lids.

Quality assurance documentation of sample container cleanliness will be provided by Eagle-Picher, if requested.

Samples will be collected in 250 ml wide-mouth glass containers with Teflon lids.

11. **Sampling Procedures:** All samples will be collected as grab samples in accordance with the Edison SOP #014, Soil Sampling. If any deviations from established procedures are used, they will be documented in the field notebook and subsequent report.

12. **Calibration Procedures and Preventative Maintenance:**

- a. **Field Equipment:** Air monitoring equipment will be calibrated prior to the sampling survey.
- b. **Laboratory Equipment:** Laboratory instrumentation is calibrated to meet method specified tuning and/or calibration criteria and maintained in accordance with the manufacturer's specifications and procedures.

13. Documentation, Data Reduction and Reporting:

- a. **Documentation:** All written notes will be recorded in a bound, field notebook. Chain of custody forms, sample labels, field data sheets, and analysis request sheets will be prepared by field personnel and given to the laboratory with the samples. The Surveillance and Monitoring Branch will retain all field notes and photographs. The Technical Support Branch will enter data into the LDMS at OSCAR and maintain QA/QC records.
 - b. **Data Reduction and Reporting:** Data will be reported by the EPA lab in STORET/LDMS designated units. Sample results will be converted by Surveillance and Monitoring personnel to meet the requirements of the project initiators.
14. **Data Validation:** Data will be validated by the procedures outlined in the QC Data Summary Checklists and the QA/QC Implementation Plan dated February 17, 1987 as prepared by the Technical Support Branch.
15. **Performance and Systems Audits:** System audits are conducted on a continual basis at the EPA Edison Laboratory.
16. **Corrective Action:** Appropriate methods are followed to detect and correct problems, e.g., audits and field blanks.
17. **Reports:** Once QA/QC validated data is received from the ESD laboratory, a written report will be drafted for review, and finalized for signature within 30 working days. Upon receipt of approvals, it will be sent to the HWCB.

CENTRAL STEEL DRUM

<u>Parameter:</u>	<u>SW-846 Method:</u>	<u>Holding Time:</u>	<u>No.samples</u>
TCLP metals (all except Hg)	1311/3010/6010	180 days/180 days	4
Mercury	1311/7470	28 days/28 days	4

CHAIN OF CUSTODY RECORD

ENVIRONMENTAL PROTECTION AGENCY - REGION II
Environmental Services Division
EDISON, NEW JERSEY 08817

Name of Unit and Address: CENTRAL STEEL DRUM 704 DUREMUS AVE. NEWARK, NEW JERSEY						
Sample Number	Number of Containers	Description of Samples				
098472	1	1- 8oz. glass jar - TCLP Metals - <u>ROLL OFF UNDER BELT.</u>				
098473	1	1- 8oz. glass jar - TCLP Metals - <u>DUST ON DRUM.</u>				
098474	1	1- 8oz. glass jar - TCLP Metals - <u>BLASTER DUST ON GROUND.</u>				
098475	1	1- 8oz. glass jar - TCLP Metals - <u>ROLL OFF/SURPLUS.</u>				
Person Assuming Responsibility for Sample:					Time	Date
DAVID DUEAN					0931	7/1/73
Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody	
098472-475	David D. Duean	Robert L. Szydlowski	10:30	7/1/73	Log-In	
Sample Number All of the above	Relinquished By: Robert L. Szydlowski	Received By:	Time	Date	Reason for Change of Custody	
Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody	
Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody	

ANALYSIS REQUEST

CHEM <input checked="" type="checkbox"/>	BIO. <input type="checkbox"/>	BACT <input type="checkbox"/>	OTHER <input type="checkbox"/>
--	-------------------------------	-------------------------------	--------------------------------

ENVIRONMENTAL PROTECTION AGENCY
Environmental Services Division

EDISON, N.J.

Date of Request 7/9/93 Priority ☒ Immediate ☐ Normal ☐ Deferred
Source of Sample(s) CENTRAL STEEL DRUM
Sample Number(s) 098472-475
Type of Sample ☐ Water ☐ Sediment ☐ Oil ☐ Air ☒ Other (Specify) BLASTK DUST

PHYSICAL CHARACTERISTICS

- | | | | |
|--|--|--|---|
| <input type="checkbox"/> Turbidity | <input type="checkbox"/> Color | <input type="checkbox"/> Specific Gravity | <input type="checkbox"/> Corrosivity (RCRA) |
| <input type="checkbox"/> Volatile Solids | <input type="checkbox"/> Total Solids | <input type="checkbox"/> Viscosity | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Total Suspended Solids | <input type="checkbox"/> Dissolved Solids | <input type="checkbox"/> % Solids | _____ |
| <input type="checkbox"/> Volatile Suspended Solids | <input type="checkbox"/> Settleable Solids | <input type="checkbox"/> Ignitability (RCRA) | _____ |

ORGANIC/DEMAND ANALYSES

- | | | | |
|--|---|--|--|
| <input type="checkbox"/> _____ Day BOD | <input type="checkbox"/> Phenol | <input type="checkbox"/> Priority Pollutants | <input type="checkbox"/> Specific Compound |
| <input type="checkbox"/> COD | <input type="checkbox"/> Pesticides | <input type="checkbox"/> POA | <input type="checkbox"/> Identify _____ |
| <input type="checkbox"/> TOC | <input type="checkbox"/> Herbicides | <input type="checkbox"/> NVOA | _____ |
| <input type="checkbox"/> TOD | <input type="checkbox"/> Long-term O ₂ Demand (Carbon) | <input type="checkbox"/> Other Major Peaks | _____ |
| <input type="checkbox"/> PCB's | <input type="checkbox"/> Long-term O ₂ Demand (Total) | <input type="checkbox"/> EP Toxicity | <input type="checkbox"/> Quantitate _____ |
| <input type="checkbox"/> Total | <input type="checkbox"/> Volatile Acids | <input type="checkbox"/> Pesticides | _____ |
| <input type="checkbox"/> Specific Aroclors | <input type="checkbox"/> Oil (Identify) | <input type="checkbox"/> Herbicides | _____ |
| | | <input type="checkbox"/> Oil & Grease (Quantitate) | |

INORGANIC ANALYSES

- | | | | | |
|--|--|---|------------------------------|--|
| <input type="checkbox"/> pH | <input type="checkbox"/> Alkalinity | <input type="checkbox"/> TKN | <input type="checkbox"/> Cd | <input type="checkbox"/> Ba |
| <input type="checkbox"/> Conductivity | <input type="checkbox"/> CO ₃ | <input type="checkbox"/> Org N | <input type="checkbox"/> Co | <input type="checkbox"/> Se |
| <input type="checkbox"/> Salinity | <input type="checkbox"/> Total | <input type="checkbox"/> NH ₃ -N | <input type="checkbox"/> Cu | <input type="checkbox"/> Ag |
| <input type="checkbox"/> Chloride | <input type="checkbox"/> HCO ₃ | <input type="checkbox"/> NO ₂ -N | <input type="checkbox"/> Pb | <input type="checkbox"/> Asbestos |
| <input type="checkbox"/> SO ₄ | <input type="checkbox"/> Chlorine Demand | <input type="checkbox"/> NO ₃ -N | <input type="checkbox"/> Zn | <input type="checkbox"/> Hexavalent Cr |
| <input type="checkbox"/> SO ₃ | <input type="checkbox"/> Chlorine Residual | <input type="checkbox"/> Total P | <input type="checkbox"/> Fe | |
| <input type="checkbox"/> Dissolved S | <input type="checkbox"/> Free | <input type="checkbox"/> AH-P | <input type="checkbox"/> Cr | |
| <input type="checkbox"/> Hardness | <input type="checkbox"/> Total | <input type="checkbox"/> Ortho-P | <input type="checkbox"/> As | |
| <input type="checkbox"/> Ca | <input type="checkbox"/> Acidity | <input checked="" type="checkbox"/> Metal Scan (TCLP) | <input type="checkbox"/> CN- | |
| <input type="checkbox"/> Mg | <input type="checkbox"/> Free | <input type="checkbox"/> EP Toxicity (Metals) | <input type="checkbox"/> F- | |
| <input type="checkbox"/> Total/METHOD | <input type="checkbox"/> Total | <input type="checkbox"/> Hg | <input type="checkbox"/> Ni | |

SENSITIVITY / METHOD

- | | | | |
|---|--------------------------------------|--|---|
| <input type="checkbox"/> COD | <input type="checkbox"/> Phosphorous | <input type="checkbox"/> Phenol | <input type="checkbox"/> Metals |
| <input type="checkbox"/> High Level (> 50 mg/l) | <input type="checkbox"/> Total | <input type="checkbox"/> 0-1,000 ppb | <input type="checkbox"/> Total |
| <input type="checkbox"/> Low Level (< 50 mg/l) | <input type="checkbox"/> Dissolved | <input type="checkbox"/> Above 1,000 ppb | <input type="checkbox"/> Dissolved |
| | | | <input type="checkbox"/> Low Sensitivity |
| | | | <input type="checkbox"/> High Sensitivity |

MICROBIOLOGY

- | | | | |
|-----------------------------|------------------------------------|------------|---|
| MF | MPN | Est. Range | |
| TC <input type="checkbox"/> | <input type="checkbox"/> | _____ | <input type="checkbox"/> Clostridium perfringes |
| FC <input type="checkbox"/> | <input type="checkbox"/> | _____ | <input type="checkbox"/> Mutagenicity Tests |
| FS <input type="checkbox"/> | <input type="checkbox"/> | _____ | <input type="checkbox"/> Ames Test |
| | <input type="checkbox"/> Pathogens | | <input type="checkbox"/> Viral Enhancement |
| | <input type="checkbox"/> Bacterial | | <input type="checkbox"/> Other (Specify) |
| | <input type="checkbox"/> Viral | | <input type="checkbox"/> ATP |

BIOLOGY

- | | |
|---|---|
| <input type="checkbox"/> 24 Hour Bioassay | <input type="checkbox"/> Static |
| <input type="checkbox"/> 48 Hour Bioassay | <input type="checkbox"/> Flow-Through |
| <input type="checkbox"/> 96 Hour Bioassay | <input type="checkbox"/> Static Replacement |
| <input type="checkbox"/> Chronic Bioassay | <input type="checkbox"/> Laboratory |
| <input type="checkbox"/> Benthos ID | <input type="checkbox"/> On Site |
| <input type="checkbox"/> Fish ID | <input type="checkbox"/> Identify |
| | <input type="checkbox"/> Quantitate |

Requested by David J. Pugh Date 7/9/93

Approved by J. B. [Signature] Date 7/9/93

Remarks

FIELD DATA SHEET

ENVIRONMENTAL PROTECTION AGENCY - Region II, Edison, New Jersey
ENVIRONMENTAL SERVICES DIVISION

Project Name CENTRAL STEEL DRUM
Collector(s) MURRELL/DUCAN Affiliation USEPA

SAMPLING METHOD (Circle)

Kemmerer Dredge Ponar Manual
Niskin Net Seine Trawl Bucket
Trowel Cream Dipper
Automatic
Other DIRECT FILL

LDMS CODE 0
DATA BASE CODE H
STA. TYPE CODE F

SUBSTRATE TYPE (Circle) Aqueous Sediment Sludge Oil Biological
Solvent Extract Other (BLASTER DUST)

BOD — Seed Supplied ☐ Yes ☐ No Source:

Sample Preparation (Circle)

Container
Glass Jar
Plastic Jar
Metal
POA Vial
Cubitainer
Acetate Core
Paper Cap
Teflon Cap
Foil Cap
Other _____
Preservation
Acid _____
Solvent _____
Chemical _____
Wet Ice
Dry Ice
Ambient
Other _____

Cleaning Procedure
Detergent Wash
Water Rinse
Acid Rinse
Solvent Rinse:
Acetone
Hexane
Methylene Chloride
Other (Specify):
Eagle Picker
pre cleaned
LEVEL 1
glassware

Sample Source Type (Circle)

Landfill
Leachate
Drum
Test Well
Depth:
Other: _____
Storage Tank
Top
Middle
Bottom
Truck
Drum
Tank
Other: _____
Wells
Monitoring
Production
Drinking
Private
Industrial
Effluent
Process Stream
Holding Pond
Drum
Waste Pile
Municipal Treatment
Influent
Effluent-CI
Effluent-Non CI
Sludge
Ambient
Lake
Stream
Pond
Ocean
Estuary

Samples to:

Bact Bio Chem ☒ Other

Station No.

Sample Depth (Ft.)/Fac. Loc. Code

Lab Number

098472

Type of Sample

Grab ☒ Composite
Time Space

Collection (Ending) Date

Yr Mo Day
93 07 09

Ending Time (24 Hr)

0920

Beginning Date

Yr Mo Day

Beginning Time (24 Hr)

pH

Sample Temp. (°C)

DO (mg/l)

Cond. (uMHOS/CM)

Salinity(‰)

Sample Split

☒ Yes ☐ No

If Yes With Whom?

Receipt ☐ Yes ☒ No

Sample Location Description:

ROLL-OFF UNDER BELT

Remarks:

Analysis: TELP Metals

ENVIRONMENTAL PROTECTION AGENCY - Region II, Edison, New Jersey
ENVIRONMENTAL SERVICES DIVISION

Form: FTB RPD-11-82-2

FIELD DATA SHEET

ENVIRONMENTAL PROTECTION AGENCY - Region II, Edison, New Jersey

ENVIRONMENTAL SERVICES DIVISION

Project Name CENTRAL STEEL DRUM
Collector(s) MORRELL/DUGAN Affiliation USEPA

SAMPLING METHOD (Circle)

Kemmerer Dredge Ponar Manual
Niskin Net Seine Trawl Bucket
Trowel Cream Dipper
Automatic
Other DIRECT FILL

LDMS CODE D
DATA BASE CODE H
STA. TYPE CODE F

SUBSTRATE TYPE (Circle) Aqueous Sediment Sludge Oil Biological
Solvent Extract Other BLASTER DUST

BOD — Seed Supplied ☐ Yes ☐ No Source:

Sample Preparation (Circle)

Container
Glass Jar
Plastic Jar
Metal
POA Vial
Cubitainer
Acetate Core
Paper Cap
Teflon Cap
Foil Cap
Other
Preservation
Acid
Solvent
Chemical
Wet Ice
Dry Ice
Ambient
Other

Cleaning Procedure

Detergent Wash
Water Rinse
Acid Rinse
Solvent Rinse:
Acetone
Hexane
Methylene Chloride
Other (Specify):

*Eagle Picher
pickers
level 1
glassware*

Sample Source Type (Circle)

Landfill Industrial
Leachate Effluent
Drum Process Stream
Test Well Holding Pond
Depth: Drum
Other: Waste Pile
Municipal Treatment
Storage Tank Influent
Top Effluent-CI
Middle Effluent-Non CI
Bottom Sludge
Truck Ambient
Drum Lake
Tank Stream
Other Pond
Wells Ocean
Monitoring Estuary
Production
Drinking
Private

Samples to:

Bact Bio ☒ Chem Other

Station No.

Station No. grid

Sample Depth (Ft.)/Fac. Loc. Code

Sample Depth (Ft.)/Fac. Loc. Code grid

Lab Number

098474

Type of Sample

Grab ☒ Composite
Time Space

Collection (Ending) Date

Yr Mo Day
9 13 07 07

Ending Time (24 Hr)

Ending Time (24 Hr) grid

Beginning Date

Yr Mo Day

Beginning Time (24 Hr)

Beginning Time (24 Hr) grid

pH

pH grid

Sample Temp. (°C)

Sample Temp. (°C) grid

DO (mg/l)

DO (mg/l) grid

Cond. (uMHOS/CM)

Cond. (uMHOS/CM) grid

Salinity(‰)

Salinity(‰) grid

Sample Split

☒ Yes ☐ No

If Yes With Whom?

Receipt ☐ Yes ☒ No

Sample Location Description:

BLASTER DUST ON GROUND

Remarks:

Analysis: TCLP Metals

FIELD DATA SHEET

ENVIRONMENTAL PROTECTION AGENCY - Region II, Edison, New Jersey
ENVIRONMENTAL SERVICES DIVISION

Project Name CENTRAL STEEL DRUM
Collector(s) MURRELL/DUGAN Affiliation US EPA

SAMPLING METHOD (Circle)

Kemmerer Dredge Ponar Manual
Niskin Net Seine Trawl Bucket
Trowel Cream Dipper
Automatic
Other DIRECT FILL

LDMS CODE 0
DATA BASE CODE H
STA. TYPE CODE F

SUBSTRATE TYPE (Circle) Aqueous Sediment Sludge Oil Biological
Solvent Extract Other (BLASTER DUST)

BOD — Seed Supplied ☐ Yes ☐ No Source:

Sample Preparation (Circle)

Container
Glass Jar
Plastic Jar
Metal
POA Vial
Cubitainer
Acetate Core
Paper Cap
Teflon Cap
Foil Cap
Other
Preservation
Acid
Solvent
Chemical
Wet Ice
Dry Ice
Ambient
Other

Cleaning Procedure
Detergent Wash
Water Rinse
Acid Rinse
Solvent Rinse:
Acetone
Hexane
Methylene Chloride
Other (Specify):
Eagle Richer
precleaned
LEVEL 1
glassware

Sample Source Type (Circle)

Landfill
Leachate
Drum
Test Well
Depth:
Other:
Storage Tank
Top
Middle
Bottom
Truck
Drum
Tank
Other
Wells
Monitoring
Production
Drinking
Private

Samples to:

Bact Bio Chem ☒ Other

Station No.

Sample Depth (Ft.)/Fac. Loc. Code

Lab Number

098475

Type of Sample

Grab ☒ Composite
Time Space

Collection (Ending) Date

Yr 93 Mo 07 Day 09

Ending Time (24 Hr)

0927

Beginning Date

Yr Mo Day

Beginning Time (24 Hr)

pH

Sample Temp. (°C)

DO (mg/l)

Cond. (uMHOS/CM)

Salinity(‰)

Sample Split

☒ Yes ☐ No

If Yes With Whom? CSD

Receipt ☐ Yes ☒ No

Sample Location Description:

ROLL-OFF / SURPLUS

Remarks:

Analysis: TCLP Metals